MULTIMEDIA UNIVERSITY®

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 3, 2022 / 2023

BEA2074 – ENTERPRISE ARCHITECTURE

(All sections / Group)

4 OCTOBER 2023
9 a.m. – 11 a.m.
(2 Hours)

INSTRUCTIONS TO STUDENT

1. This question paper consists of **2 pages** (excluding cover page) with 3 Questions only.
2. Attempt **ALL** questions. The distribution of the marks for each question is given.
3. Write your answers in the Answer Booklet.

QUESTION 1 [10 Marks]

What is Enterprise Architecture and why is it important?

(4 marks)

City Planning and Enterprise Architecture have a lot in common. Describe three good practices in City Planning that Enterprise Architects can adopt.

(6 marks)

QUESTION 2 [10 MARKS]

(a) Define the main steps for developing an Enterprise Architecture.

(5 marks)

(b) What are 5 questions you should ask when analysing the current state of the Enterprise Architecture in a bank

(5 marks)

QUESTION 3 [30 MARKS]

MotorBykes Sdn Bhd is a Malaysian company that assembles and sells motorcyles. It imports spare parts and components from local and overseas companies, assembles the motorbikes in a factory in Klang and sells the motorcycles through a network of dealers throughout the country. When the motorcyles are ready, they are transported to the dealers' showroom and warehouse throughout the country. It also has contracts with motorcycle repair shops throughout the country where bike owners can have their bikes serviced and repaired. Currently, MotorBykes only sells its bikes locally but there are plans to export the bikes in the next 2 to 3 years. It is also looking at introducing electric motorobikes. Records of bike owners are kept by the dealers in their own systems. MotorBykes does not have a central database of bike owners. Motorbykes has two systems for its dealers for placing their orders for bikes. One runs on a 7-year old server and and another runs on a 3 year old server - dealers complain that both are slow. Motorbykes has been advised to consider using the Cloud instead.
Motorbikes has about 1000 employees – 60% of them use Windows PCs and 40% of them use Apple desktops. Sharing files is a problem.

You have been asked to develop a high-level Enterprise Architecture for MotorBykes Sdn Bhd :

a. Current Business Architecture
   i. Identify at least 3 business functions
   ii. Identify at least 2 opportunities or issues

(5 marks)

Continued...

b. Current Application Architecture
   i. Identify at least 3 applications
   ii. Identify at least 2 opportunities or issues

(5 marks)

c. Current Information Architecture
   i. Identify at least 2 Master data entities
   ii. Identify at least 2 Transaction data entities
   iii. Identify at least 1 opportunity or issue

(5 marks)

d. Current Technical Architecture
   i. Identify at least 2 items
   ii. Identify at least 2 opportunities or issues

(4 marks)

e. Write a vision statement for MotorBykes

(2 marks)

f. Target State Architecture
   i. Define at least 5 aspects of the Target Architecture (ie Business, Application, Information and/or Technical)

(5 marks)

g. Roadmap
   i. Define at least 2 projects that should be on the roadmap

(2 marks)

h. Principles
   i. Propose at least 2 architecture principles or standards for MotorBykes.

(2 marks)

End of Page